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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/075,159	0	2/14/2002	Tomokuni Wauke	9281-4276 6899	
757	7590	08/04/2003			
		LSON & LIONE	EXAMINER		
P.O. BOX 1 CHICAGO,		MOHANDESI IPALA			SI, IRAJ A
				ART UNIT	PAPER NUMBER
				2834	

DATE MAILED: 08/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
	Office Action Cumpners	10/075,159	WAUKE, TOMOKUNI					
	Office Action Summary	Examiner	Art Unit					
		Iraj A Mohandesi	2834					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)⊠	Responsive to communication(s) filed on 27 June 2003.							
2a)⊠	This action is FINAL . 2b) Thi	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
·	Claim(s) <u>1-6,8 and 9</u> is/are pending in the app	lication.						
	4a) Of the above claim(s) 7 is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) 1-6,8,9 is/are rejected.							
_	Claim(s) is/are objected to.							
	8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers								
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)[All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5,8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pijanowski US patent 6,247,906 and in view of Kimura US patent 6,462,451 And skill in the art.

Pijanowski,906 discloses a motor comprising:

a rotor having plural magnetic poles (Fig. 9A) disposed in a circumferential shape and a stator including a stator (500, Fig.9A) core having plural magnetic pole teeth that are outside a circumference of the rotor and face the rotor, a coil (830,Fig 9A) being wound around each of the magnetic pole teeth (see Fig. 9A) wherein the stator is provided so that a central angle of the rotor with respect to the stator is in a range within 180 degrees (see Fig. 9A).

However **Pijanowski'906** fails to teach a magnetic pole teeth are set so that a first angle defined by extensions of the centerlines of two adjacent magnetic pole teeth is smaller than a second angle.

Kimura'451 discloses a permanent magnet rotating electric machine having a magnetic pole teeth are set so that a first angle defined by extensions of the centerlines of two

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adjacent magnetic pole teeth is smaller than a second angle (se Fig.2) for the purpose of the distortion factor of the wave form.

Therefor it would have been obvious to one having skill in the art at the time the invention was made to combine **Pijanowski,906** motor with a magnetic pole teeth that are set so that a first angle defined by extensions of the centerlines of two adjacent magnetic pole teeth is smaller than a second angle as taught by **Kimura'451** for the purpose of the distortion factor of the wave form.

With regards to **claim 6** it would have been obvious to one having skill in the art at the time the invention was made form the extensions of adjacent pole teeth 15 degrees and have six pole teeth, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art *In re Boesch*, 617 F.2d 272,205 USPPQ 215 (CCPA 1980).

Response to Arguments

3. Applicant's arguments with respect to claims 1-6,8,9 have been considered but are most in view of the new ground(s) of rejection.

Communication

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A Mohandesi whose telephone number is (703)305-3242. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers

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for the organization where this application or proceeding is assigned are (703)872-9314 for regular communications and (703)872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-0377.

IM July 31, 2003

Phymis M. Cougherty